

# PCNA Mouse mAb

**Catalog No.: AC058**

## Basic Information

### Observed MW

36kDa

### Calculated MW

29kDa

### Category

Loading control antibody

### Applications

WB,IHC-P,IF/ICC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

AMC0704

## Background

Enables estrogen receptor binding activity. Involved in several processes, including estrous cycle; liver regeneration; and response to dexamethasone. Located in nucleus. Biomarker of several diseases, including brain ischemia (multiple); mucositis; obstructive jaundice; osteoporosis; and sciatic neuropathy. Human ortholog(s) of this gene implicated in stomach cancer. Orthologous to human PCNA (proliferating cell nuclear antigen).

## Recommended Dilutions

<b>WB</b>	1:1000 - 1:10000
<b>IHC-P</b>	1:2000-1:8000
<b>IF/ICC</b>	1:200 - 1:800
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

25737

### Swiss Prot

P04961

### Immunogen

Recombinant protein (or fragment).This information is considered to be commercially sensitive.

### Synonyms

PCNAR; PcnA/cyclin

## Contact

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## Product Information

### Source

Mouse

### Isotype

IgG2a, κ

### Purification

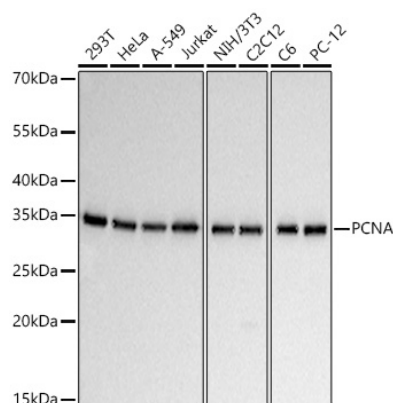
Affinity purification

### Storage

Store at 4°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,pH7.2.

## Validation Data



Western blot analysis of various lysates using PCNA Mouse mAb (AC058) at 1:5000 dilution incubated overnight at 4°C.

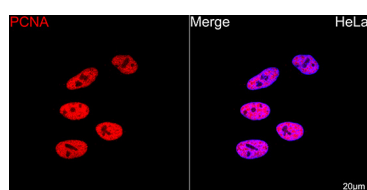
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

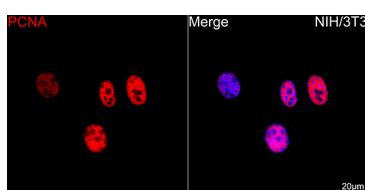
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

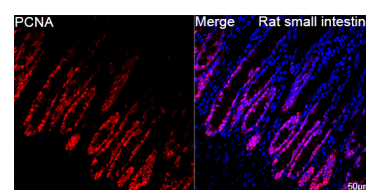
Exposure time: 10s.



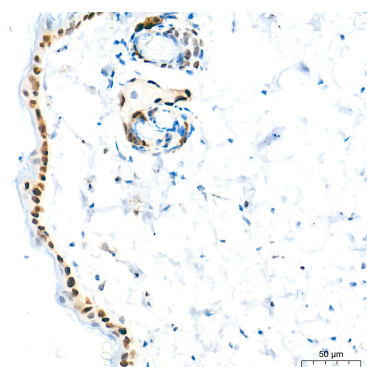
Confocal imaging of HeLa cells using PCNA Mouse mAb (AC058, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



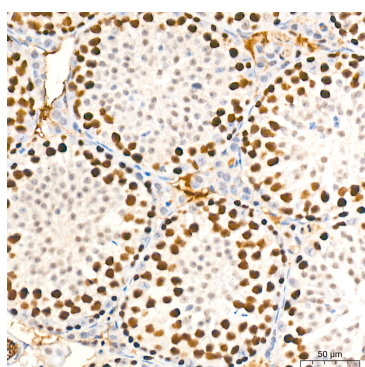
Confocal imaging of NIH/3T3 cells using PCNA Mouse mAb (AC058, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



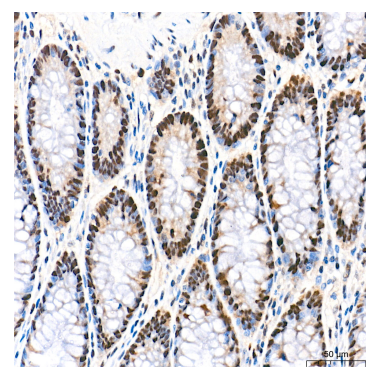
Confocal imaging of paraffin-embedded Rat small intestine tissue using PCNA Mouse mAb (AC058, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



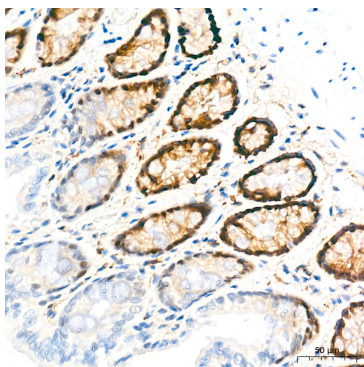
Immunohistochemistry analysis of paraffin-embedded Mouse skin tissue using PCNA Mouse mAb (AC058) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using PCNA Mouse mAb (AC058) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using PCNA Mouse mAb (AC058) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using PCNA Mouse mAb (AC058) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.